

ABSTRACT OF THE DISCLOSURE

A harmonic Q switch laser device and its control method for obtaining a stable laser pulse while protecting a nonlinear optical crystal used for a wavelength conversion are presented. In this laser device, in a
5 pause period of a laser train, a Q switch which is turned on makes the laser oscillates spuriously and continuously, and prevents a gain from accumulating in a gain medium. Before a generation of a laser pulse, the Q switch is turned off for a specified period to raise the laser gain, so that a pulse of a specified magnitude is generated from the first shot when
10 turning on the Q switch.